Non Calculator **Negative Numbers** **AT2 L5**

Answer

1 What does a temperature of - 2°C mean? 2°C below zero.

2 Which temperature is colder - 8°c or - 4°C ? -8°C is colder.

3 At midnight the temperature was 2 °C . Three hours later it was - 4 °C. By how many degrees had the temperature dropped? 2-(-4)=6 The temperature dropped by 6°C.

4 Answer TRUE or FALSE (i) - 5 < 3 True (ii) - 12 > - 7 False
(iii) 0 > -1 True (iv) - 4 < - 10 False

5 Write these in order of size, putting the LOWEST first :
- 9, 0, - 2, 5, 1, - 1 -9 < -2 < -1 < 0 < 1 < 5

6 Complete this table :

Starting Temperature	Change in Temperature	Finishing Temperature
6°C	- 7°C	-1°C
- 5°C	- 2°C	-7°C
- 2°C	+5°C	3°C
4°C	-6°C	- 2°C
8°C	- 6°C	2°C

7 Work out the following :

(a) 6 - 8 = -2 (b) - 5 - 2 = -7

(c) - 8 + 4 = -4 (d) - 5 - (- 2) = -5+2 = -3

(e) 0 - (- 1) = 0+1 = 1 (f) 7 - 12 + 9 = 7+9-12 = 4

(g) - 4 - 9 + -2 = -4-9-2 = -15 (h) - 9 + 14 - (- 2) = -9+14+2 = 16-9 = 7

(i) - 45 + 17 = - 28 (j) 4 - 5½ = $4-5\frac{1}{2}=-1\frac{1}{2}$

8 Work these out :

(a) 4 x - 3 = -12 (b) - 7 x - 2 = +14

(c) - 5 x 4 = - 20 (d) 28 + - 7 = 28-7 = 21

(e) - 21 + - 3 = -21-3 = -24 (f) - 20 + 5 = -15

(g) - 2 x 3 x 2 = -12 (h) -18 + - 3 x 2 = -18 -6 = -24

(i) -2 x -2 x -2 = -8 (j) 2.5 x - 10 = - 25

9 What is the missing number?

(a) 3 + - 5 + ? = 0 ? = 0-3+5 = 2

(b) 7 + - 2 + 8 + - 9 + - 4 + ? + - 2 + 1 + - 3 = - 6

7 + 8 +1 -2 -9 -4 -2 -3 + ? = -6

16 - 20 + ? = -6

? = -6 -16 +20

? = -2